

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

By:

Robert J. Hariri et al.

Confirmation No.:

To be Assigned

Serial No.:

10/511,355

Art Unit:

To be Assigned

Filed:

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To be Assigned

For:

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Attorney Docket No.:

: 9516-149-999

PROGENITOR CELL DIFFERENTIATION, ASSAYS, AND USES THEREOF

(CAM:)

(501872-999148)

## INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure provisions of 37 C.F.R. §1.56, there is hereby provided certain information which the Examiner may consider material to the examination of the subject U.S. patent application. It is requested that the Examiner make this information of record if it is deemed material to the examination of the application.

1.	Enclo	sures accompanying this Information Disclosure Statement are:
	la.	A list of all patents, publications, applications, or other information submitted for consideration by the office.
	1 <b>b</b> .	A legible copy of:
		Each U.S. patent application publication and foreign patent. Pursuant to 37 CFR 1.98(a)(2) as amended (Federal Register, vol. 69, No.182, September 21, 2004, p.56510), copies of U.S. patents are not submitted herewith;
		Each publication or that portion which caused it to be listed on the PTO-1449;
		☐ For each cited pending U.S. application, the application specification including the claims, and any drawing of the application, or portion of the application which caused it to be listed on the PTO-1449 including any claims directed to that portion;
		☑ all other information or portion which caused it to be listed on the PTO-1449.
	lc.	An English language copy of search report(s) from a counterpart foreign application or PCT International Search Report.
	1d.	Explanations of relevancy (ATTACHMENT 1(d), hereto) or English language abstracts of the non-English language publications.
2.	$\boxtimes$	This Information Disclosure Statement is filed under 37 C.F.R. §1.97(b):  Within three months of the filing date of a national application other than a continued prosecution application under §1.53(d);
		Within three months of the date of entry of the national stage as set forth in §1.491 in an international application;

		Before the mailing of the first Office action on the merits;
		Before the mailing of a first Office action after the filing of a request for continued examination under §1.114.
3.		This Information Disclosure Statement is filed under 37 C.F.R. §1.97(c) after the period specified in 37 C.F.R §1.97(b), but before the mailing date of any of a final action under 37 C.F.R. §1.113, a notice of allowance under 37 C.F.R. §1.311 or an action that otherwise closes prosecution in the application.
		(Check either Item 3a or 3b)
	3a.	☐ The Certification Statement in Item 5 below is applicable. Accordingly, no fee is required.
	3b.	☐ The \$180.00 fee set forth in 37 C.F.R. §1.17(p) in accordance with 37 C.F.R. §1.97(c) is: ☐ enclosed
		to be charged to Jones Day Deposit Account No. 50-3013.
		(Item 3b to be checked if any reference known for more than 3 months)
4.		This Information Disclosure Statement is filed under 37 C.F.R. §1.97(d) after the period specified in 37 C.F.R. §1.97(c), but on or before the date of payment of the issue fee.
	The Ce	rtification Statement in Item 5 below is applicable.
		The \$180.00 fee set forth in 37 C.F.R. §1.17(p) is:  — enclosed.  — to be charged to Jones Day Deposit Account No. 50-3013
5.		Certification Statement (applicable if Item 3a or Item 4 is checked)
		(Check either Item 5a or 5b)
	5a.	In accordance with 37 C.F.R. §1.97(e)(1), it is certified that each item of information contained in this Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.
	5b.	Each item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart application, and the communication was not <b>received</b> by any individual designated in 37 C.F.R. §1.56(c) more than thirty days prior to the filing of this information disclosure statement.
	5c.	Pursuant to 37 C.F.R. §1.704(d), each item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart application, and the communication was not received by any individual designated in 37 C.F.R. §1.56(c) more than thirty days prior to the filing of this information disclosure statement.
6.		This application is a continuation application under 37 C.F.R. §1.60 or §1.53(b) or (d).

-2- CAJD507368.1

## (Check appropriate Items 6a, 6b and/or 6c)

	6a.	A Petition to Withdraw from issue under 37 C.F.R. §1.313(b)(5) is concurrent filed herewith.	tly
	6b.	Copies of publications listed on Form PTO-1449 from prior application Serial No. , filed on , of which this application claims priority under 35 U.S.C. §120, are not being submitted pursuant to 37 C.F.R. §1.98(d).	I
	6c.	Copies of the publications listed on Form PTO-1449 were not previously cited prior application Serial No. , filed on , and are provided herewith	
7.		This is a Supplemental Information Disclosure Statement.	
	7a.	This Supplemental Information Disclosure Statement under 37 C.F.R. §1.97(ff) supplements the Information Disclosure Statement filed on . A bona fid attempt was made to comply with 37 C.F.R. §1.98, but inadvertent omissions were made. These omissions have been corrected herein. Accordingly, additional time is requested so that this Supplemental Information Disclosure Statement can be considered as if properly filed on .	•
8.		In accordance with 37 C.F.R. §1.98, a concise explanation of what is presently understood to be the relevance of each non-English language publication is:	
		(Check Item 8a, 8b, or 8c)	
	8a.	satisfied because all non-English language publications were cited on the enclosed English language copy of the PCT International Search Report or the search report from a counterpart foreign application indicating the degree of relevance found by the foreign office.	e
	8b.	set forth in the application.	
	8c.	enclosed as an attachment hereto.	
9.		The Commissioner is authorized to charge any additional fee required or credit an overpayment for this Information Disclosure Statement and/or Petition to Jones D Deposit Account No. 50-3013.	•
10.		No admission is made that the information cited in this Statement is, or is conside to be, material to patentability nor a representation that a search has been made (o than a search report of a foreign counterpart application or PCT International Sear Report if submitted herewith). 37 C.F.R. §§1.97(g) and (h).	ther
		Respectfully submitted,	
Date:	Janua	Ary 27, 2005  Lawrence S. Graham  for Anthony M. Insogna  49,0 (Reg. 35,2	No.)
		JONES DAY 222 East 41 <sup>st</sup> Street New York, New York 10017 (212) 326-3939	

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	ATTY DOCKET NO. 9516-149-999 (501872-999148))	APPLICATION NO 10/511,355
LIST OF REFERENCES CITED BY APPLICANT (Use several sheets if necessary)	APPLICANT HARIRI, Robert J.	CONFIRMATION NO.: To be Assigned
	FILING DATE October 12, 2004	ART UNIT: To be Assigned

## **U.S. PATENT DOCUMENTS**

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATI
	A01	60/366,515	03/20/02	Muller			
	A02	60/366,516	03/20/02	Muller			
	A03	60/436,975	12/30/02	Muller			
	A04	60/438,448	01/07/03	Muller			
	A05	60/438,450	01/07/03	Muller			
	A06	60/454,149	03/12/03	Muller			
	A07	60/454,155	03/12/03	Muller			
	A08	10/511,354	10/12/04	Hariri et al.			-
	A09	2002/0123141	09/05/02	Hariri			
	A10	2003/0032179	02/13/03	Hariri			
	A11	2003/0180269	09/25/03	Hariri			· <u></u>
	A12	2003/0235909	12/25/03	Harri et al.			
	A13	2004/0028660	02/12/04	Hariri et al.			
	A14	3,031,450	04/24/62	Fischer et al.		-	
	A15	3,322,755	05/30/67	Roch et al.			
	A16	3,920,636	11/18/75	Takahashi et al.			
	A17	4,001,237	01/04/77	Partyka et al.			
	A18	4,001,238	01/04/77	Partyka et al.			
	A19	4,047,404	09/13/77	Hayashi			
	A20	4,060,615	11/29/77	Matier et al.		-	
	A21	4,101,548	07/18/78	Crenshaw			
	A22	4,162,316	07/24/79	Nishimura et al.		ļ	
	A23	4,209,623	06/24/80	Juby			
	A24	4,880,810	11/14/89	Lowe, III		<del>                                     </del>	
	A25	4,885,301	12/05.89	Coates			
	A26	5,147,875	09/15/92	Coates et al.		<u> </u>	
	A27	5,354,571	10/11/94	Morikawa et al.		<del>-</del>	
	A28	5,401,774	03/28/95	Pamuksu et al.			
	A29	5,439,895	08/08/95	Lee et al.		<del> </del>	
	A30	5,488,055	01/30/96	Kumar et al.		<del> </del>	
_	A31	5,516,532	05/14/96	Atala et al.			
	A32	5,605,914	02/25/97	Muller			
	A33	5,614,530	03/25/97	Kumar et al.			
	A34	5,614,627	03/25/97	Takase et al.			
	A35	5,654,381	08/05/97	Hrkach et al.		<del>                                     </del>	
	A36	5,658,940	08/19/97	Muller et al.			

Sheet 2 of 3

					Sheet Z OI J
4	A37	5,698,579	12/16/97	Muller	
	A38	5,703,098	12/30/97	Muller	
,	A39	5,709,854	01/20/98	Griffith-Cima et al.	
	A40	5,710,170	01/20/98	Guay et al.	
	A41	5,728,844	03/17/98	Muller	
	A42	5,728,845	03/17/98	Muller	
	A43	5,736,570	04/07/98	Muller	
,	A44	5,798,373	08/25/98	Warrellow	
	A45	5,801,195	09/01/98	Muller et al.	
,	A46	5,849,770	12/15/98	Head et al.	
ļ .	A47	5,877,200	03/02/99	Muller	
<u> </u>	A48	5,891,896	04/06/99	Warrellow et al.	
,	A49	6,011,060	01/04/00	Laurent et al.	
	A50	6,020,358	01/04/00	Muller et al.	
,	A51	6,046,221	04/04/00	Muller et al.	
,	A52	6,066,634	05/23/00	Sperl et al.	
	A53	6,069,156	05/30/00	Oku et al.	
- ,	A54	6,166,041	12/26/00`	Cavalla et al.	
,	A55	6,177,471	01/23/01	Menander et al.	
,	A56	6,300,335	10/09/01	Campbell et al.	
	A57	6,316,471	11/13/01	Muller et al.	
	A58	6,316,472	11/13/01	Frenette et al.	
ļ	A59	6,326,198	12/04/01	Emerson et al.	
	A60	6,333,354	12/25/01	Schudt	
	A61	6,335,195	01/01/02	Rodgers et al.	
	A62	6,338,942	01/15/02	Kraus et al.	

		FOREIG	N PATENT DOCUMENTS				
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSL	ATION
			<del></del>			YES	NO
B01	WO 93/07149	04/15/93	PCT				
B02	WO 93/12095	06/24/93	PCT				
B03	WO 94/05661	03/17/94	PCT				
B04	WO 94/19351	09/01/94	PCT				
B05	WO 94/29277	12/22/94	PCT		-		
B06	WO 95/19978	07/27/95	PCT .				
B07	WO 96/32379	10/17/96	PCT				
B08	WO 96/39101	12/12/96	PCT	112			
B09	WO 97/03070	01/30/97	PCT				
B10	WO 97/03675	02/06/97	PCT				
B11	WO 97/03985	02/06/97	PCT				
B12	WO 97/24334	07/10/97	PCT		-	Abstract only	
B13	WO 97/29182	01/29/98	PCT			Omy	
B14	WO 98/06722	02/19/98	PCT				
B15	WO 98/08848	03/05/98	PCT			Abstract only	
B16	WO 98/14448	04/09/98	PCT			Abstract only	

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	V	\$520	04/16/98	P	PCT	+	+			١
B17	WO 98/1:		04/23/98		PCT	+			· 1	_
B18	WO 98/1		04/30/98		PCT		+		1	Ĺ
B19	WO 98/1		06/04/98		PCT		-		1	
B20	WO 98/2		09/03/98		PCT		+		+	T
B21	WO 98/3				PCT				+	1
B22	WO 99/		02/11/99		PCT				+	+
B23	WO 00/	/73421	12/07/00	+	Great Britain				+	+
B24			06/03/81		EPO EPO				+	+
B25			12/20/89		EPO				+	+
B26	77.024		01/03/90						-	+
B20		351058	01/17/9		EPO				+-	+
B27		352960	01/31/9		EPO					-+
		395328	10/31/9	/90	EPO					$\rightarrow$
B29	77.04	428268	05/22/9	/91	EPO					
B30	70.0	)463756	01/02/	/92	EPO					
В3		0526004	02/03/	1/93	EPO					
B3			07/27	7/94	EPO					
		0607439	07/24		EPO					
В	,,,,	0722937		24/96	EPO			1		
В		0722943		24/96	EPO			<del></del>		
В	B36 EP 6	0722944			1. 1. they Title Date, Pe	. n	ages 1	Etc.)		

	B36	EP 0722944	07/24/96	LIG	D - Eta)	
		OTHER REFER	ENCES (Inc	cluding Author,	Title, Date. Pertinent Pages, Etc.)	_
		1 1008 Blood	91(4):1243			_
	C01	Dao et al., 1998, Bloom DeLoia et al., 1998, Hu	man Reproduct	ion 13(4):1063		
-	C02	DeLoia et al., 1996, 714  Dushnik-Levinson et al.	1995 Biol Ne	eonate 67:77		
	C03	Dushnik-Levinson et at	Denred Toxice	219(3):245		
	C04	Genbachev et al., 1995	, Reprou Tomen	rt 125:1457		$\neg$
	C05	Hatzopoulos et al., 199	18, Developmen	53		$\neg$
	C06	Hirashima et al. 1999,	Blood 93(4)12	 5		-
	C07	Huang et al., 1994, Bl  Kobari et al, 2001 J F	Jamatother Ster	n Cell Res 10(2):2	73	
	C08	Kobari et al., 2001 J F.  Melchner et al., 1985	Blood 66(6):1	469-1472		
-	C09	Melchner et al., 1983	Tumori 70:50	3-505		
	CI	Nadkarni et al., 1984 Ray et al., 1997, J Bi	, 1 Cham 272(3	0):18702-18708		
	CI	1 Ray et al., 1997, J Ba 2 Slager et al., 1993, L	On Genet 14(3)	):212-24		
-	CI	2 Slager et al., 1993, L	I Nourosci Res	(69)6:976		
-	C	2 Stager et al., 1902,  Tamaki et al., 2002,	Science 282:	1145		
-	C	14 Thomson <i>et al.</i> , 199	Piol 235:422	-432		
-	- C	14 Thomson 15  Yan et al., 2001, De	ev Dioi 233.122			
1					CONSIDERED	

C15 Yan et al., 2001, Dev Biol 233,422	
	DATE CONSIDERED
EXAMINER	ARER 609. Draw line through citation if not in conformance and not
*EXAMINER: Initial if reference considered, whether or not citation is in conforma considered. Include copy of this form with next communication to applicant.	ince with MPEP 60%, 2.2.